

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for preparing 2-alkylpolyisobutenylphenols and their Mannich adducts, by

- a) contacting at least one 2-alkylhydroxyaromatic compound with a catalytically active amount of a BF_3 source which is capable of complex formation with the 2-alkylhydroxy compound, and alkylating with substantially monoethylenically unsaturated and substantially homopolymeric polyisobutenes, and
- b) if appropriate, subjecting the 2-alkylpolyisobutenylphenols obtained in step a) to an aminoalkylation.

Claim 2 (Original): The process according to claim 1, wherein the BF_3 source used in step a) is selected from

- i) gaseous BF_3 ,
- ii) BF_3 complexes with at least one of the 2-alkylhydroxyaromatic compounds used in step a),
- iii) BF_3 complexes with hydroxyaromatic compounds which are substantially not alkylated under the reaction conditions in step a), and
- iv) mixtures of BF_3 with aliphatic alcohols which comprise less than 2 mol of alcohol per mole of BF_3 .

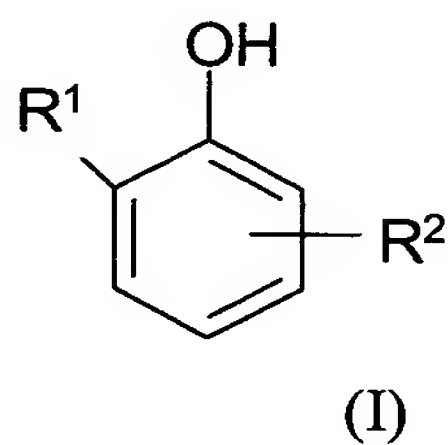
Claim 3 (Original): The process according to claim 2, wherein the hydroxyaromatic compounds of the BF_3 complexes iii) used as the BF_3 source are selected from 2,4,6-trialkylphenols and 4-halophenols.

Claim 4 (Currently Amended): The process according to claim 2, wherein the molar ratio of alcohol to BF_3 in the mixture of BF_3 with aliphatic alcohols iv) which is used as the BF_3 source is at most 1.9:1, ~~preferably at most 1.5:1, in particular at most 1.1:1.~~

Claim 5 (Currently Amended): The process according to ~~any of the preceding claims~~ Claim 1, wherein the 2-alkylhydroxyaromatic compound is contacted with the BF_3 source and alkylated with the polyisobutenes at a temperature of at most 40°C , ~~preferably of at most 30°C .~~

Claim 6 (Currently Amended): The process according to ~~any of the preceding claims~~ Claim 1, wherein the 2-alkylhydroxyaromatic compound is contacted with the BF_3 source at a temperature of at most 20°C , ~~preferably of at most 10°C .~~

Claim 7 (Currently Amended): The process according to ~~any of the preceding claims~~ Claim 1, wherein the 2-alkylhydroxyaromatic compound used for the alkylation in step a) is selected from compounds of the general formula I



where

R¹ is C₁-C₂₀-alkyl and

R^2 is hydrogen, C_1 - C_{20} -alkyl, hydroxyl or C_2 - C_{4000} -alkyl which is interrupted by at least one moiety which is selected from O, S and NR^3 where R^3 is hydrogen, alkyl, cycloalkyl or aryl.

Claim 8 (Original): The process according to claim 7, wherein R^1 and/or R^2 are each a C_1 - C_{20} -alkyl radical which has at least one tertiary or quaternary carbon atom.

Claim 9 (Currently Amended): The process according to ~~either of claims 7 and 8~~
Claim 7, wherein R^1 is a C_1 - C_{20} -alkyl radical and R^2 is hydrogen, and the 2-alkylpolyisobutenylphenols obtained in step a) are subjected to an aminoalkylation in step b).

Claim 10 (Currently Amended): The process according to ~~either of claims 7 and 8~~
Claim 7, wherein R^2 is a radical other than hydrogen which is bonded to the benzene ring in the 6-position.

Claim 11 (Currently Amended): A composition comprising at least one 2-alkylpolyisobutenylphenol and/or at least one Mannich adduct thereof, ~~obtainable prepared~~
by a process according to ~~any of claims 1 to 10~~ Claim 1.

Claim 12 (Currently Amended): The composition according to claim 11, which is ~~obtainable prepared~~ by alkylating at least one 2-alkylhydroxyaromatic compound of the general formula I where R^1 and/or R^2 are each a C_1 - C_{20} -alkyl radical which has at least one tertiary or quaternary carbon atom.

Claim 13 (Original): The composition according to claim 12, which has at least 90% by weight of at least one 2-alkylpolyisobutenylphenol and/or at least one Mannich adduct thereof.

Claim 14 (Currently Amended): The composition according to ~~any of claims 11 to 13~~ Claim 11 in the form of a fuel composition comprising a majority of a liquid hydrocarbon fuel.

Claim 15 (Currently Amended): The composition according to ~~any of claims 11 to 13~~ Claim 11 in the form of a lubricant composition comprising a majority of a liquid, semisolid or solid lubricant.

Claim 16 (Currently Amended): A turbine fuel composition comprising a turbine or jet fuel ~~(jet fuel)~~ and a the composition as defined in any of claims 11 to 13 according to Claim 11.

Claim 17 (Currently Amended): An additive concentrate for turbine fuels, comprising

- at least one composition ~~as defined in any of claims 11 to 13~~ according to Claim 11,
- if appropriate at least one diluent, and
- if appropriate at least one additive.

Claim 18 (Currently Amended): ~~The use of a composition as defined in any of claims 11 to 13~~ A method for stabilizing nonliving organic material against the action of

light, oxygen, and heat by incorporating in said material a composition according to Claim 11.

Claim 19 (Currently Amended): ~~The use of~~ A method of using as a fuel additive and for preparing fuel detergents a 2-alkylpolyisobutenylphenol-containing composition as defined in any of claims 11 to 13 as a fuel additive and for preparing fuel detergents according to Claim 11.

Claim 20 (Currently Amended): ~~The use of a~~ A method of using as a detergent additive in fuel and lubricant compositions a composition comprising a Mannich adduct of a 2-alkylpolyisobutenylphenol ~~and as defined in any of claims 11 to 13 as a detergent additive in fuel and lubricant compositions~~ according to Claim 11.

Claim 21 (Currently Amended): ~~The use of~~ A method for improving the thermal stability of turbine fuels by incorporating in said fuel at least one 2-alkylpolyisobutenylphenol and/or ~~of at least one~~ a Mannich adduct thereof, ~~obtainable by a process according to any of claims 1 to 10, for improving the thermal stability of turbine fuels~~ Claim 1.

Claim 22 (Currently Amended): ~~The use of at least one 2-alkylpolyisobutenylphenol and/or of at least one Mannich adduct thereof, obtainable by a process according to any of claims 1 to 10,~~ A method of using as an additive for turbine fuels for reducing deposits in the fuel system and/or combustion system of a turbine at least one 2-alkylpolyisobutenylphenol and/or a Mannich adduct thereof prepared by the process according to Claim 1.